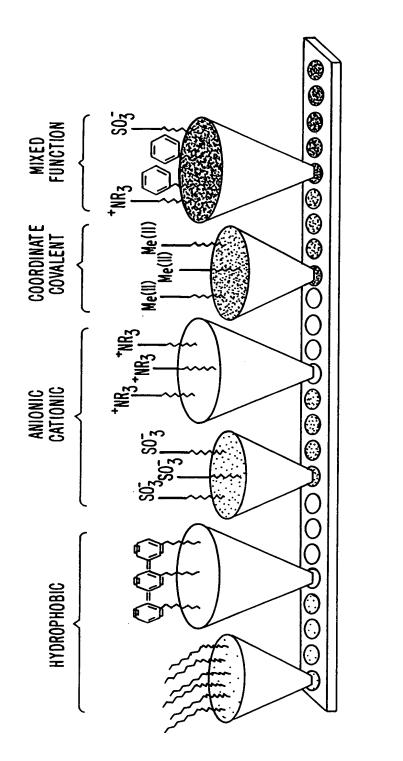
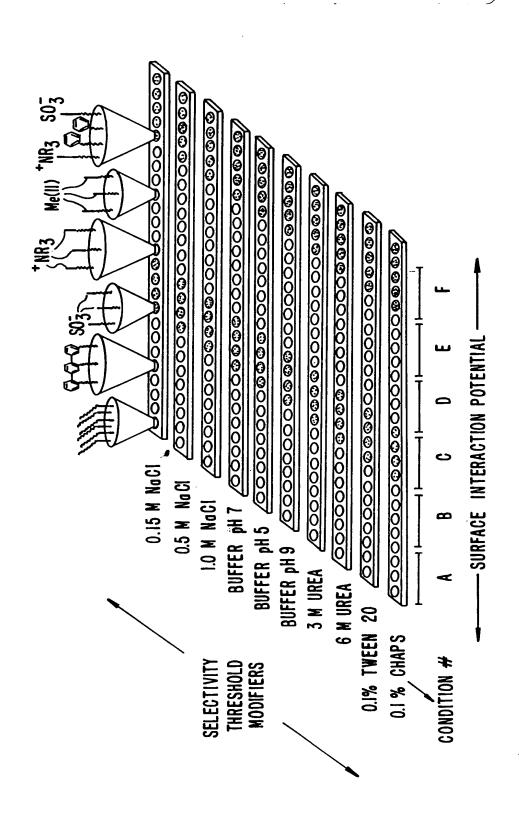
Application No.: 10/626,302
Applicant: T. William Hutchens et al.
Title: RETENTATE CHROMATOGRAPHY AND PROTEIN CHIP ARRAYS
WITH APPLICATIONS IN BIOLOGY AND MEDICINE
Sheet 1 of 44





-/6. /

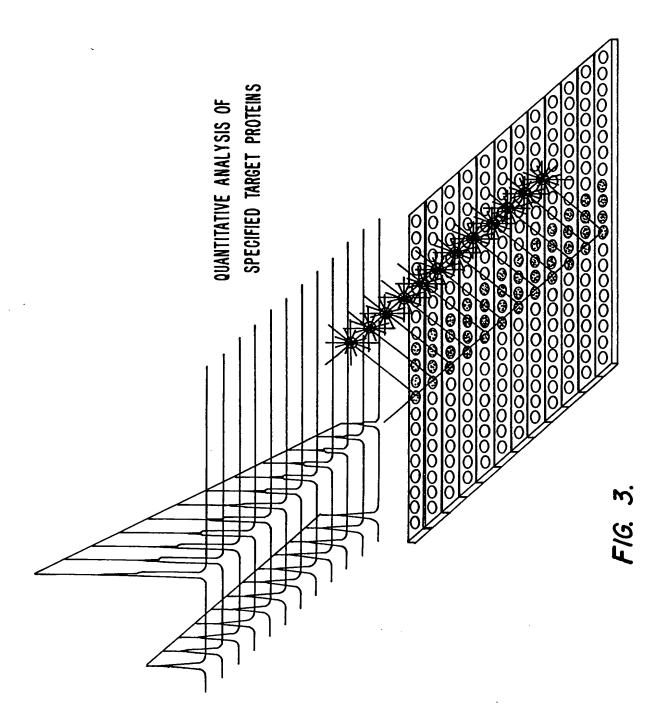
Application No.: 10/626,302
Applicant: T. William Hutchens et al.
Title: RETENTATE CHROMATOGRAPHY AND PROTEIN CHIP ARRAYS
WITH APPLICATIONS IN BIOLOGY AND MEDICINE
Sheet 2 of 44

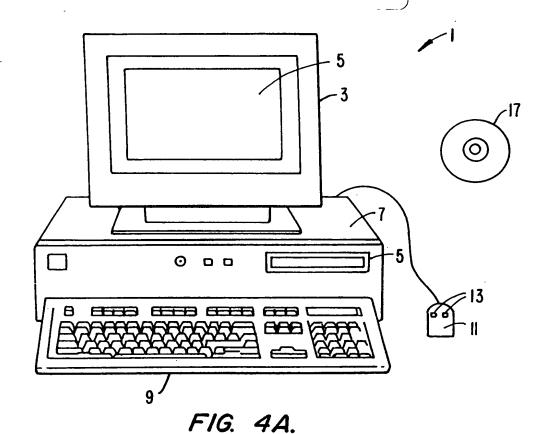


5/G. 2.

Application No.: 10/626,302
Applicant: T. William Hutchens et al.
Title: RETENTATE CHROMATOGRAPHY AND PROTEIN CHIP ARRAYS
WITH APPLICATIONS IN BIOLOGY AND MEDICINE

Sheet 3 of 44





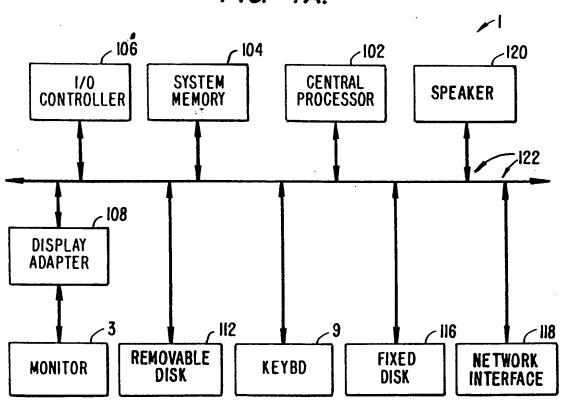


FIG. 4B.

Application No.: 10/626,302
Applicant: T. William Hutchens et al.
Title: RETENTATE CHROMATOGRAPHY AND PROTEIN CHIP ARRAYS
WITH APPLICATIONS IN BIOLOGY AND MEDICINE
Sheet 5 of 44

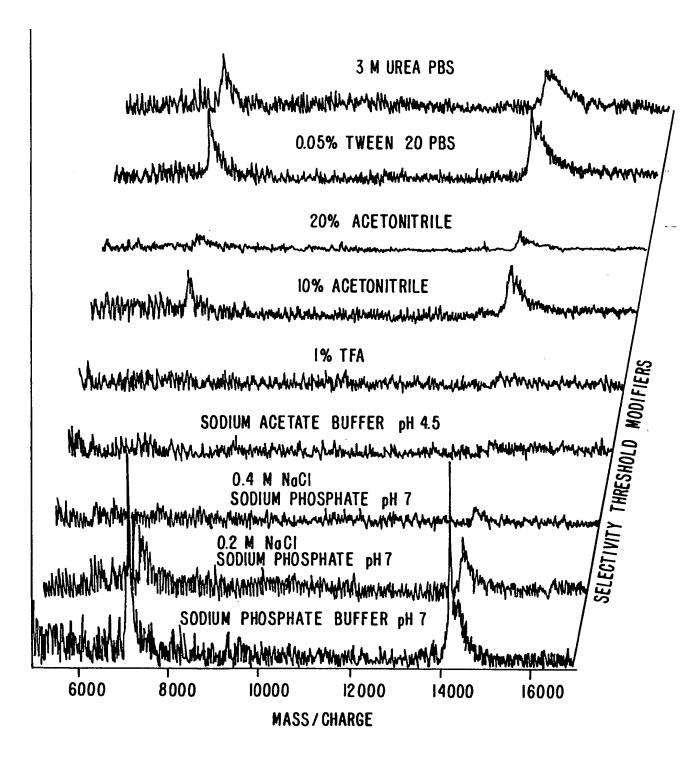


FIG. 5A.

Application No.: 10/626,302
Applicant: T. William Hutchens et al.
Title: RETENTATE CHROMATOGRAPHY AND PROTEIN CHIP ARRAYS
WITH APPLICATIONS IN BIOLOGY AND MEDICINE
Sheet 6 of 44

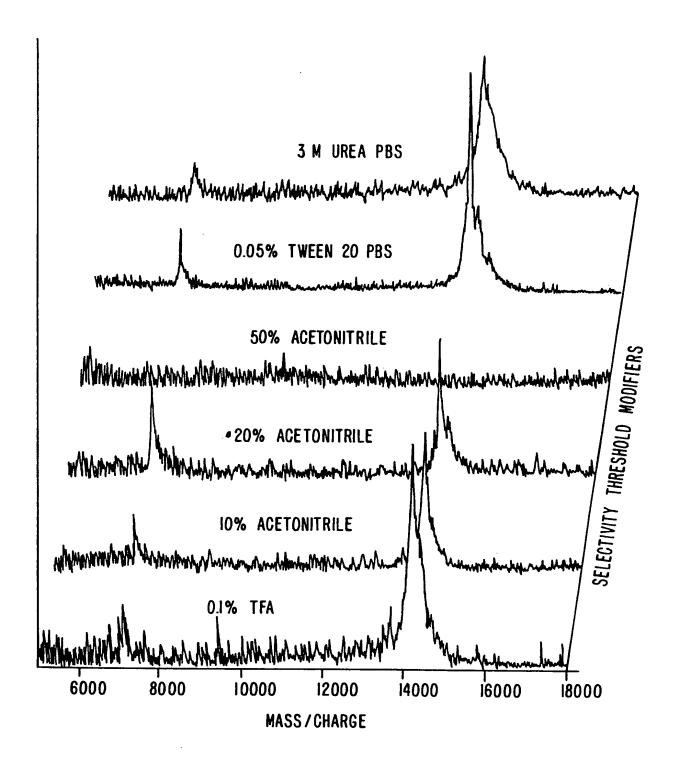


FIG. 5B.

Application No.: 10/626,302
Applicant: T. William Hutchens et al.
Title: RETENTATE CHROMATOGRAPHY AND PROTEIN CHIP ARRAYS
WITH APPLICATIONS IN BIOLOGY AND MEDICINE
Sheet 7 of 44

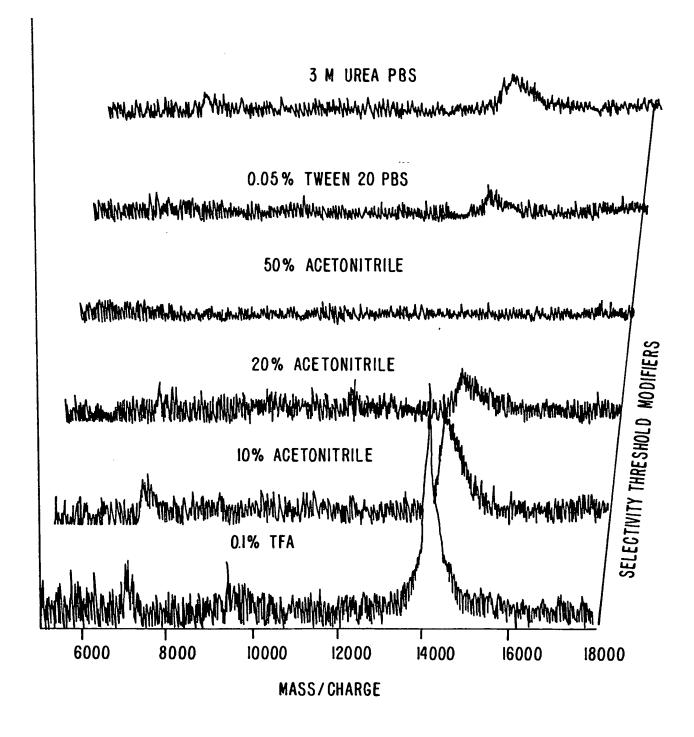


FIG. 5C.

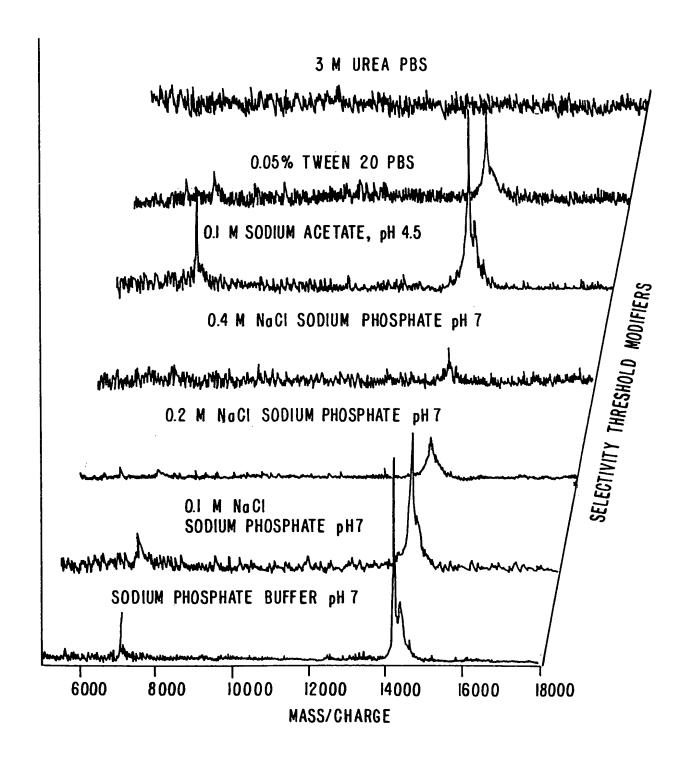


FIG. 5D.

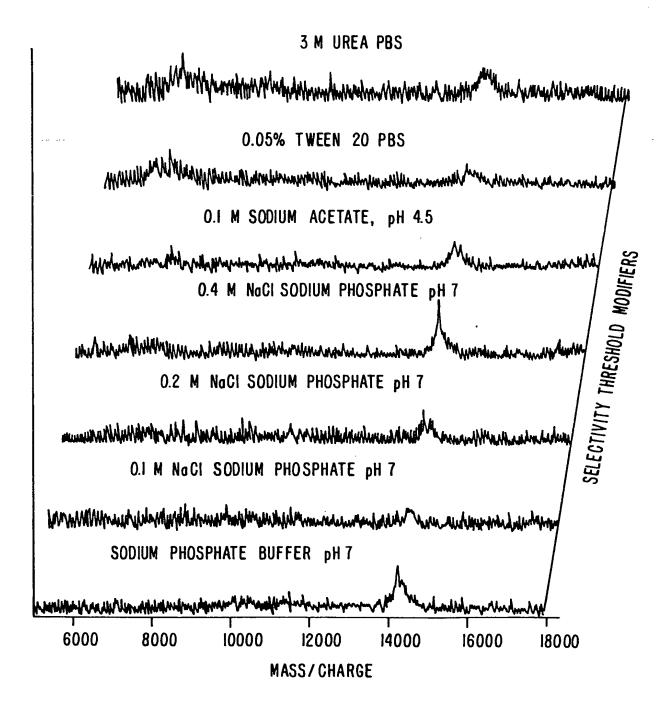


FIG. 5E.

Application No.: 10/626,302
Applicant: T. William Hutchens et al.
Title: RETENTATE CHROMATOGRAPHY AND PROTEIN CHIP ARRAYS
WITH APPLICATIONS IN BIOLOGY AND MEDICINE
Sheet 10 of 44

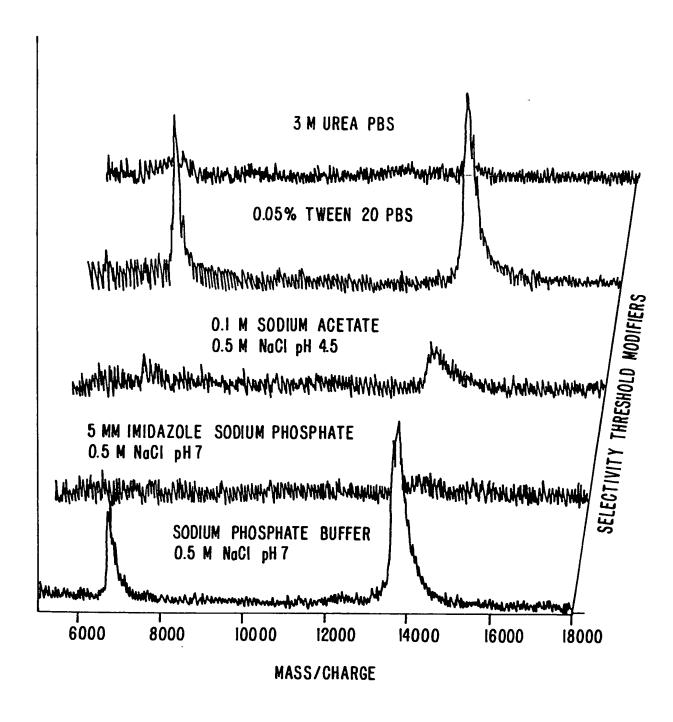


FIG. 5F.

Application No.: 10/626,302
Applicant: T. William Hutchens et al.
Title: RETENTATE CHROMATOGRAPHY AND PROTEIN CHIP ARRAYS
WITH APPLICATIONS IN BIOLOGY AND MEDICINE
Sheet 11 of 44

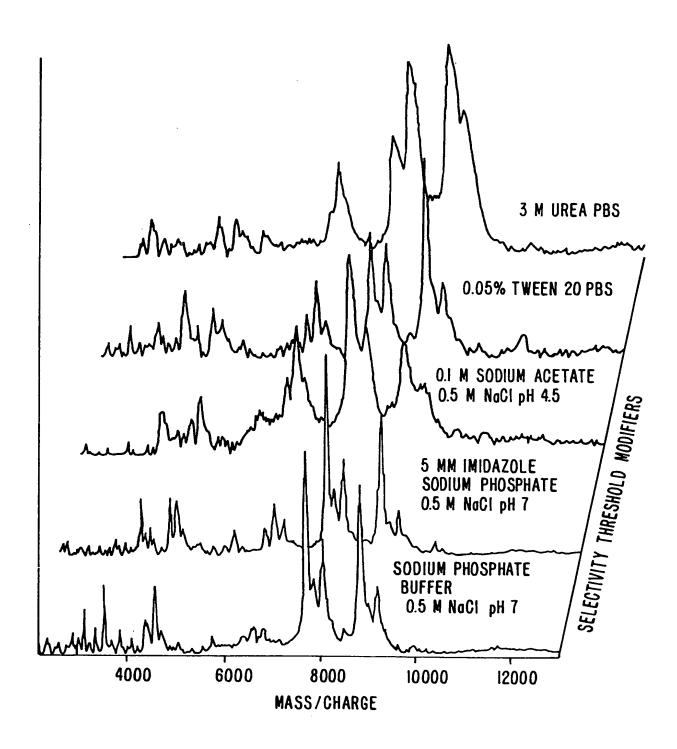


FIG. 6A.

Application No.: 10/626,302
Applicant: T. William Hutchens et al.
Title: RETENTATE CHROMATOGRAPHY AND PROTEIN CHIP ARRAYS
WITH APPLICATIONS IN BIOLOGY AND MEDICINE
Sheet 12 of 44

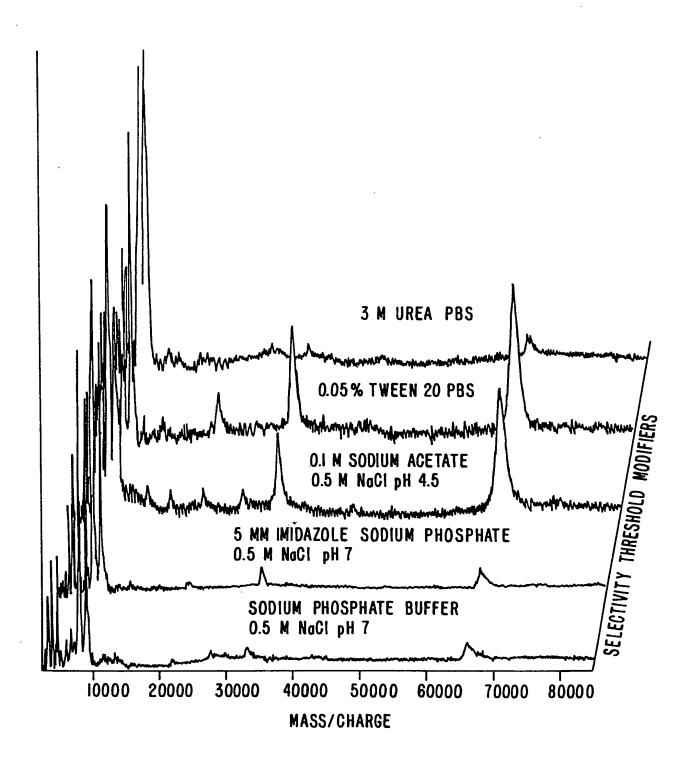


FIG. 6B.

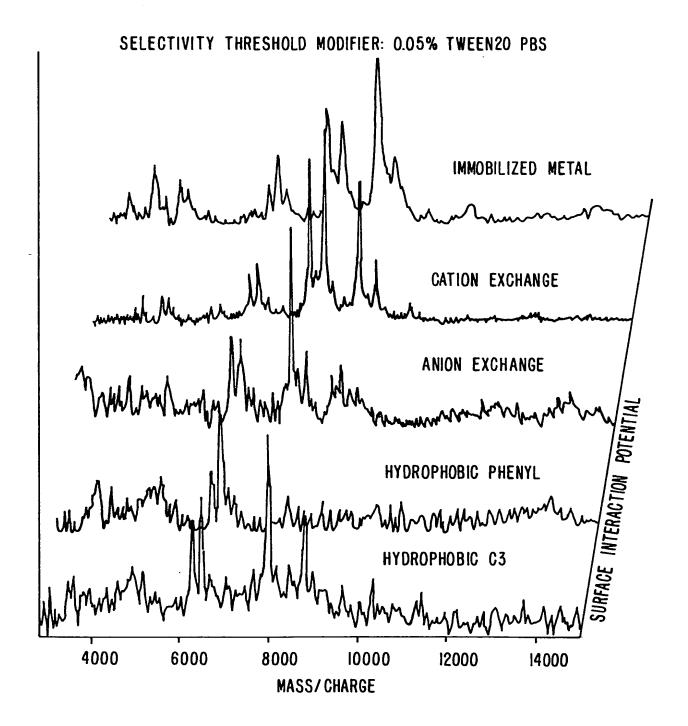


FIG. 7A.

Application No.: 10/626,302
Applicant: T. William Hutchens et al.
Title: RETENTATE CHROMATOGRAPHY AND PROTEIN CHIP ARRAYS
WITH APPLICATIONS IN BIOLOGY AND MEDICINE

Sheet 14 of 44

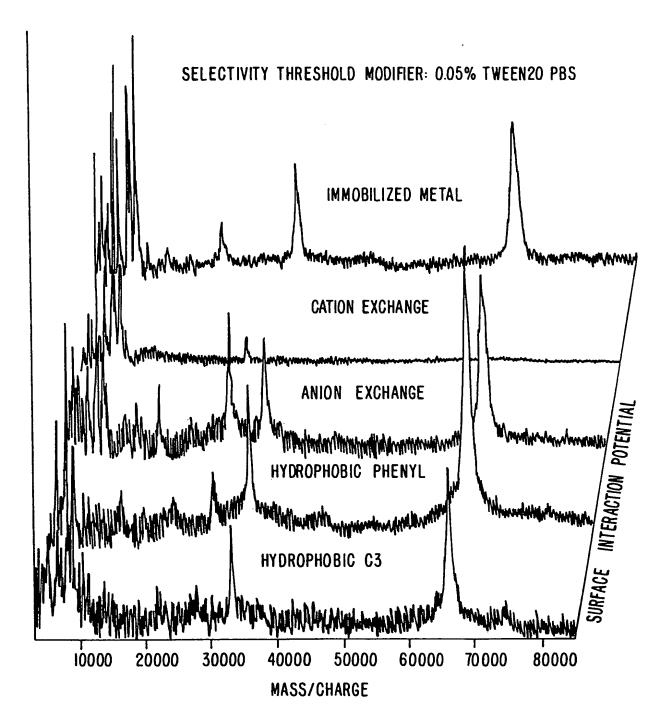


FIG. 7B.



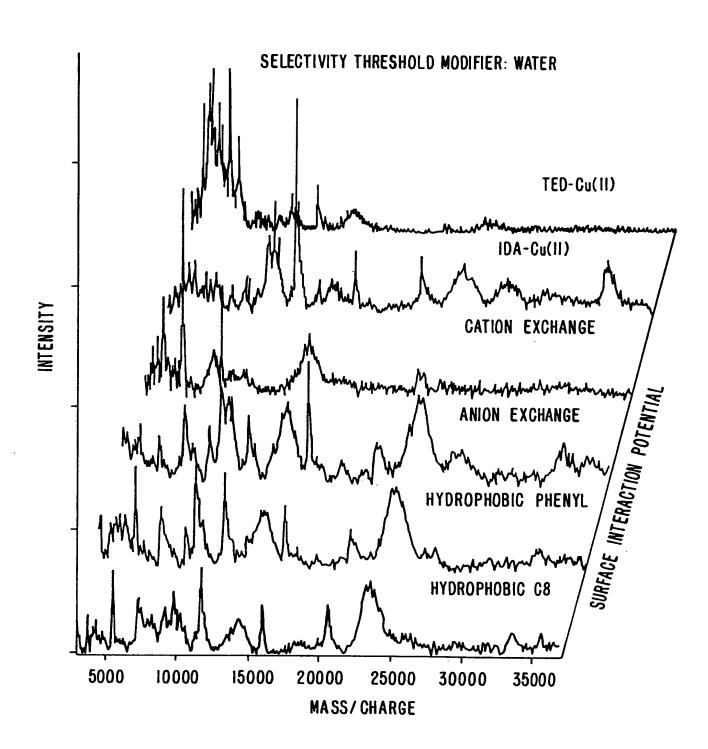


FIG. 8A.

Application No.: 10/626,302
Applicant: T. William Hutchens et al.
Title: RETENTATE CHROMATOGRAPHY AND PROTEIN CHIP ARRAYS
WITH APPLICATIONS IN BIOLOGY AND MEDICINE
Sheet 16 of 44

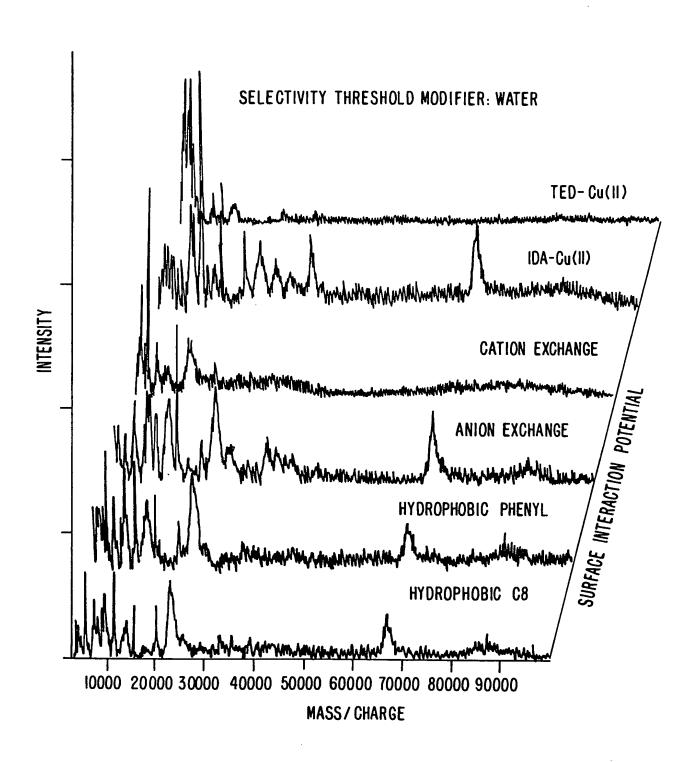


FIG. 8B.

Application No.: 10/626,302
Applicant: T. William Hutchens et al.
Title: RETENTATE CHROMATOGRAPHY AND PROTEIN CHIP ARRAYS
WITH APPLICATIONS IN BIOLOGY AND MEDICINE
Sheet 17 of 44

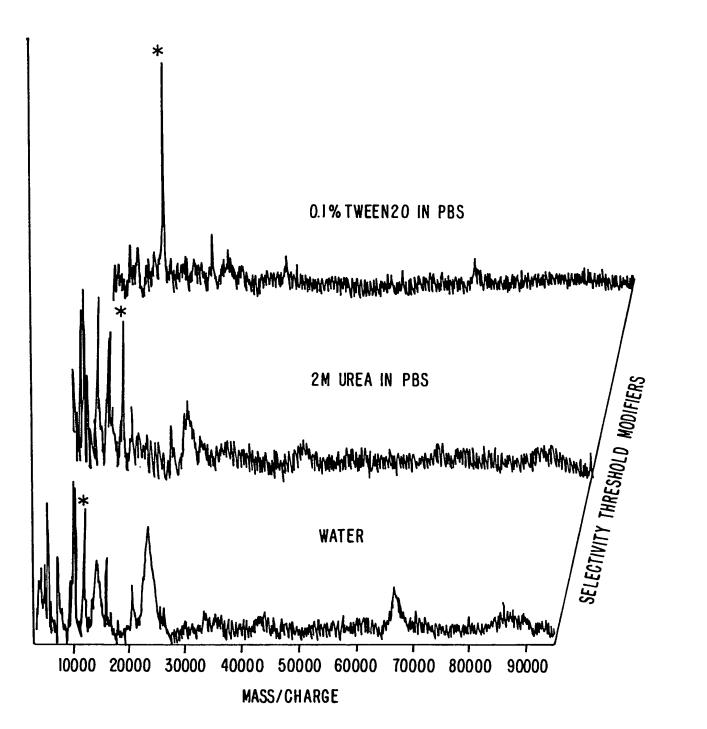


FIG. 9.

Application No.: 10/626,302
Applicant: T. William Hutchens et al.
Title: RETENTATE CHROMATOGRAPHY AND PROTEIN CHIP ARRAYS
WITH APPLICATIONS IN BIOLOGY AND MEDICINE
Sheet 18 of 44

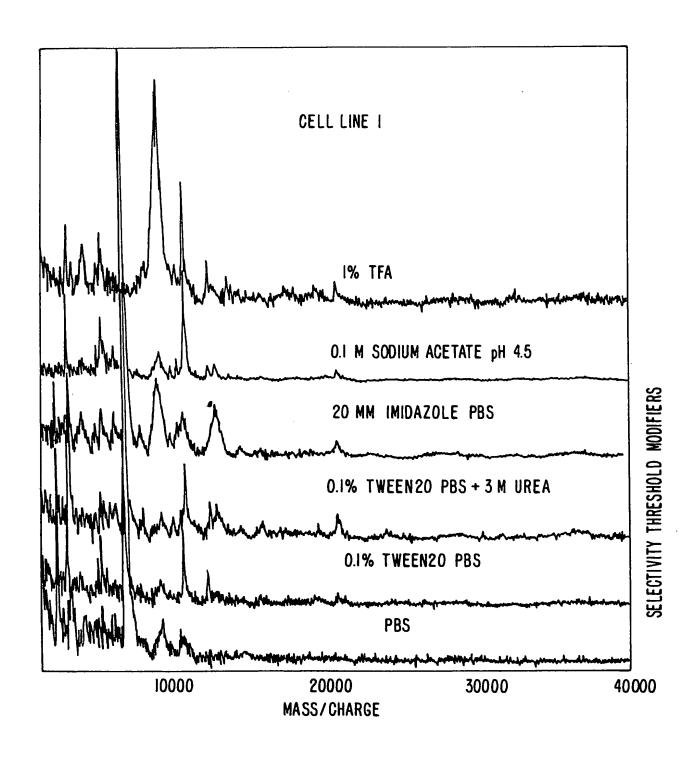


FIG. IOA.

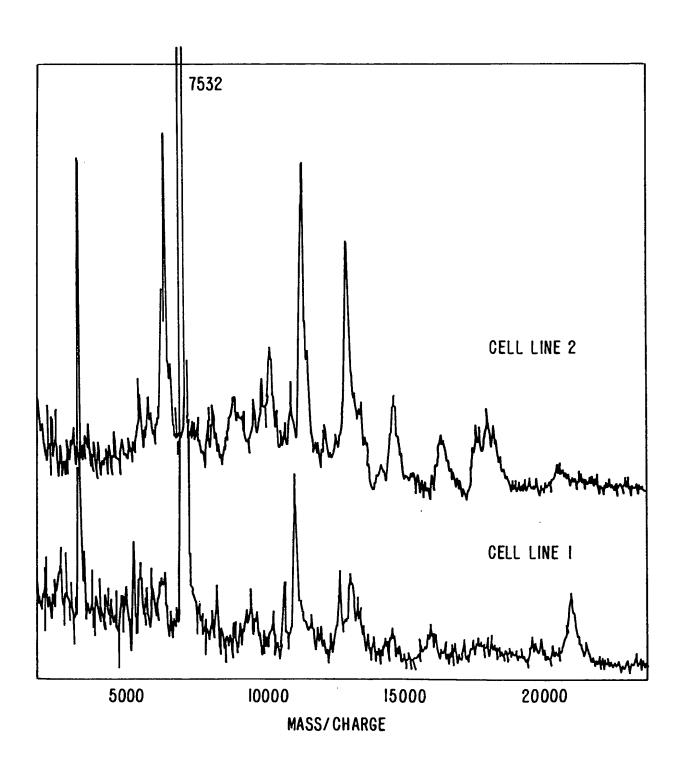


FIG. IOB.

Application No.: 10/626,302
Applicant: T. William Hutchens et al.
Title: RETENTATE CHROMATOGRAPHY AND PROTEIN CHIP ARRAYS
WITH APPLICATIONS IN BIOLOGY AND MEDICINE
Sheet 20 of 44

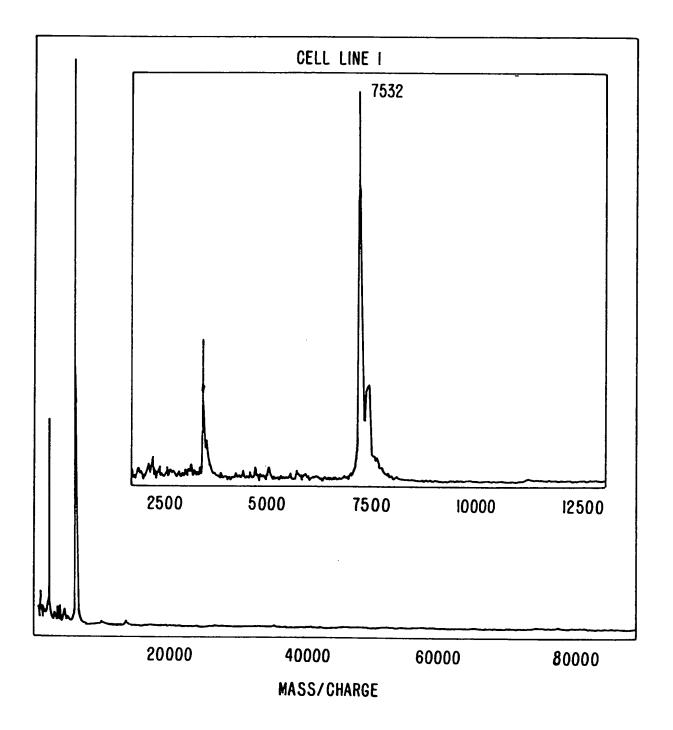


FIG. 10C.

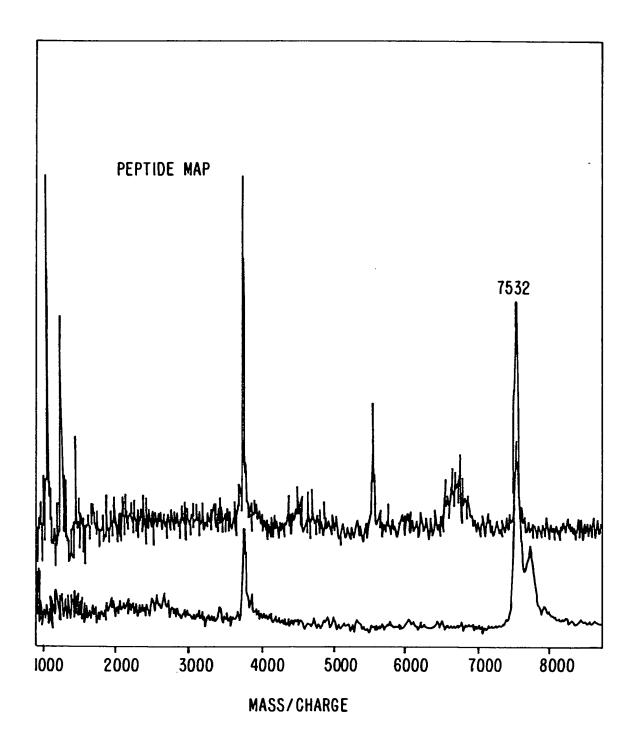
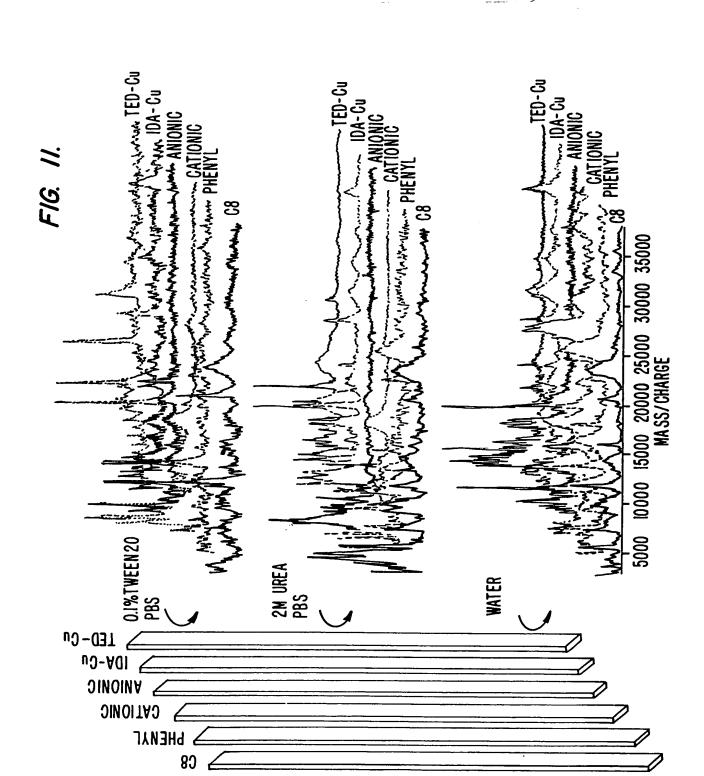


FIG. IOD.

Application No.: 10/626,302
Applicant: T. William Hutchens et al.
Title: RETENTATE CHROMATOGRAPHY AND PROTEIN CHIP ARRAYS
WITH APPLICATIONS IN BIOLOGY AND MEDICINE
Sheet 22 of 44





Application No.: 10/626,302
Applicant: T. William Hutchens et al.
Title: RETENTATE CHROMATOGRAPHY AND PROTEIN CHIP ARRAYS
WITH APPLICATIONS IN BIOLOGY AND MEDICINE
Sheet 23 of 44

DIMENSION: SDS PAGE

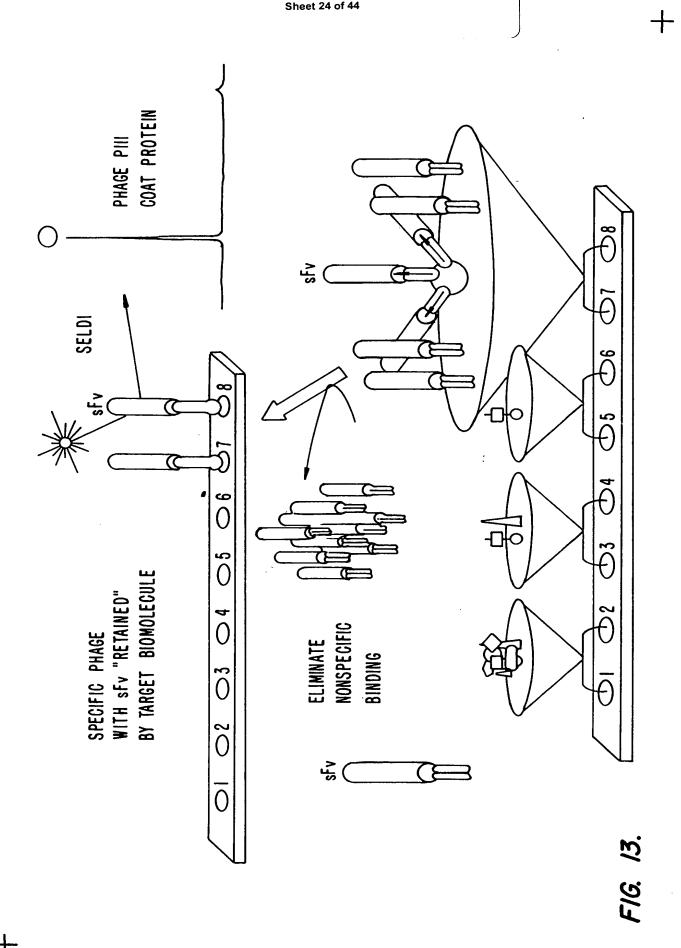
2ND

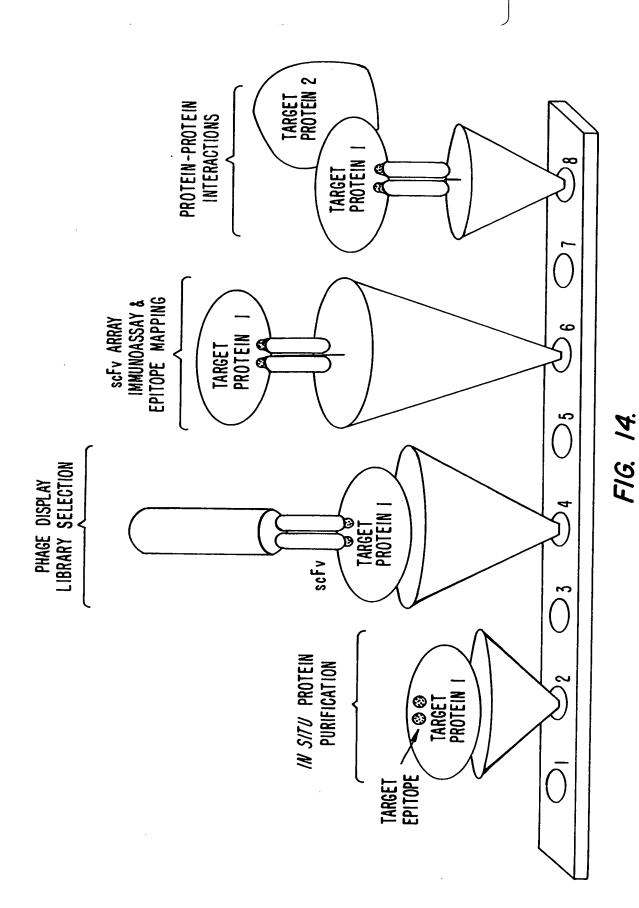
IST DIMENSION: ISOELECTRIC FOCUSING



FIG. 12.

Application No.: 10/626,302
Applicant: T. William Hutchens et al.
Title: RETENTATE CHROMATOGRAPHY AND PROTEIN CHIP ARRAYS
WITH APPLICATIONS IN BIOLOGY AND MEDICINE
Sheet 24 of 44

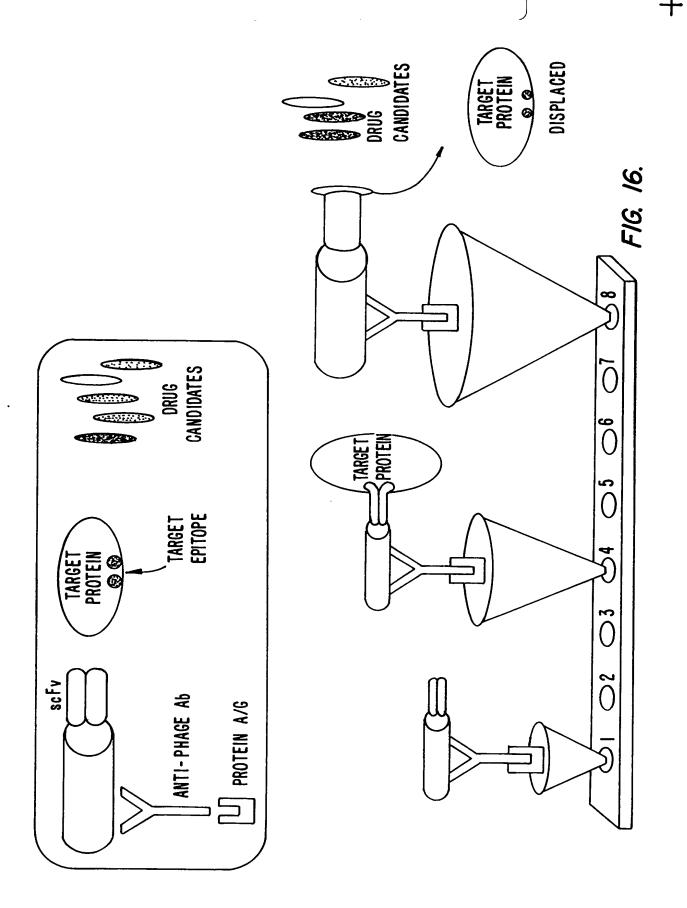




4

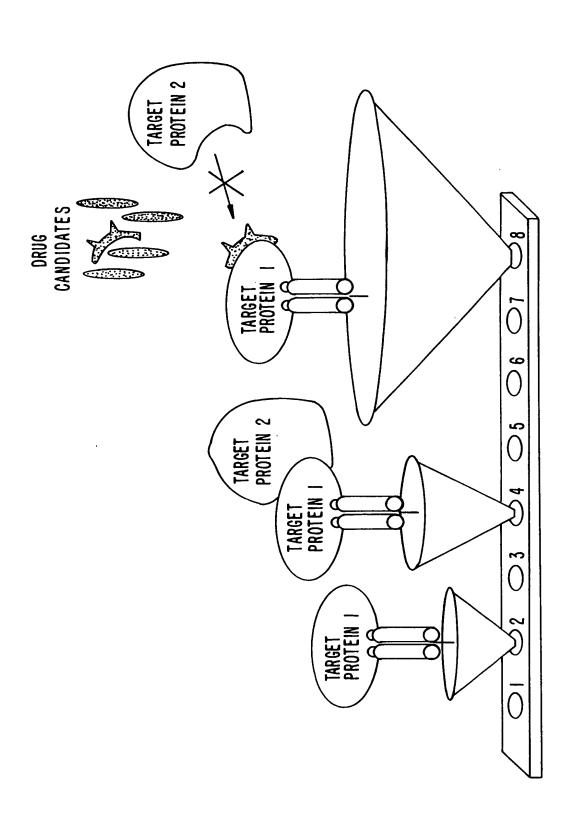
Application No.: 10/626,302
Applicant: T. William Hutchens et al.
Title: RETENTATE CHROMATOGRAPHY AND PROTEIN CHIP ARRAYS
WITH APPLICATIONS IN BIOLOGY AND MEDICINE
Sheet 26 of 44 TARGET DISPL ACED ORUG (V CANDIDATES STANDARD. စ OUSSA SO 6 scFv ANTI-PHAGE Ab

Application No.: 10/626,302
Applicant: T. William Hutchens et al.
Title: RETENTATE CHROMATOGRAPHY AND PROTEIN CHIP ARRAYS
WITH APPLICATIONS IN BIOLOGY AND MEDICINE
Sheet 27 of 44



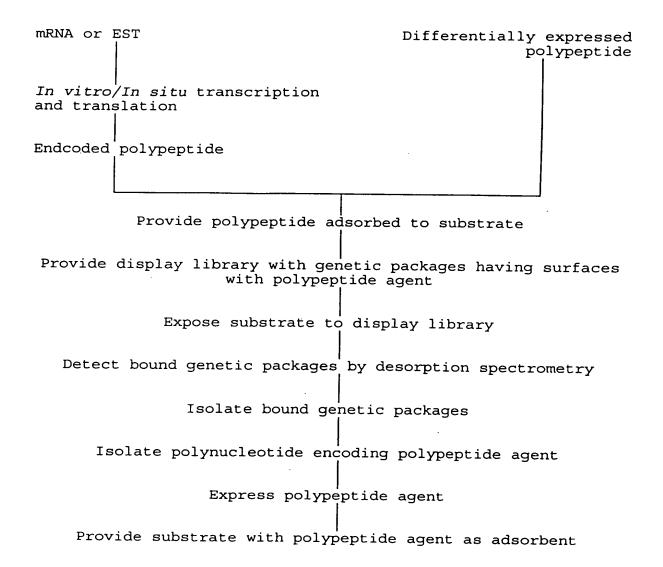
Application No.: 10/626,302
Applicant: T. William Hutchens et al.
Title: RETENTATE CHROMATOGRAPHY AND PROTEIN CHIP ARRAYS
WITH APPLICATIONS IN BIOLOGY AND MEDICINE

Sheet 28 of 44

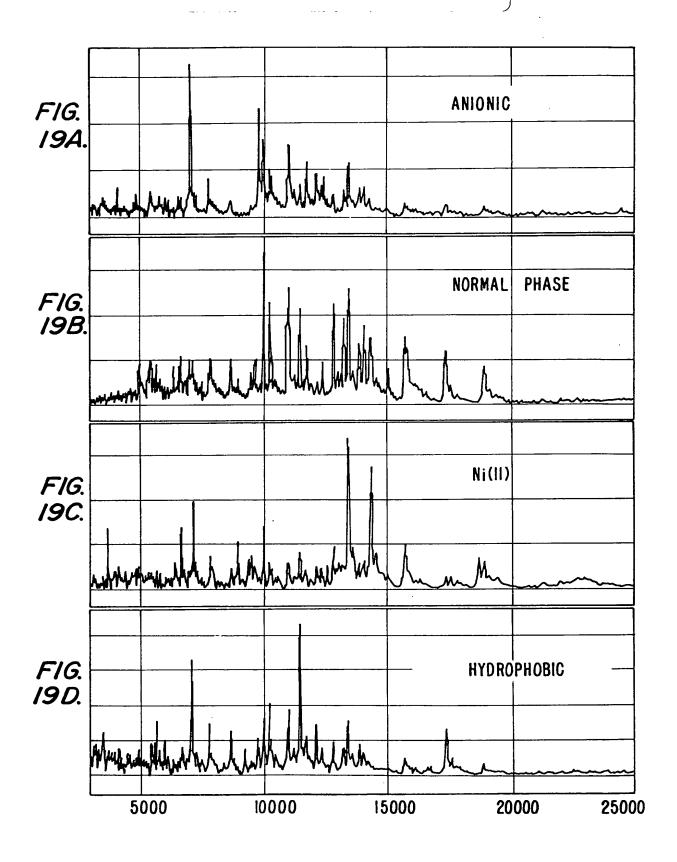


+

Fig. 18

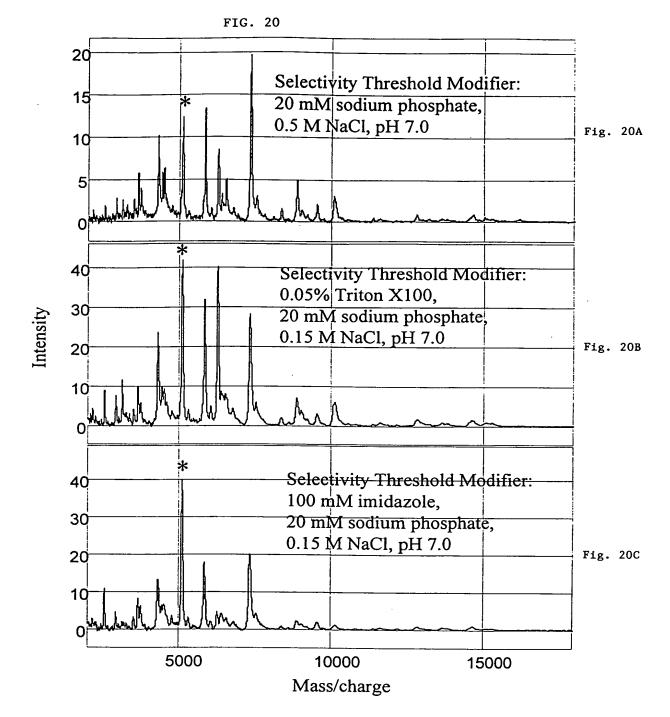


Application No.: 10/626,302
Applicant: T. William Hutchens et al.
Title: RETENTATE CHROMATOGRAPHY AND PROTEIN CHIP ARRAYS
WITH APPLICATIONS IN BIOLOGY AND MEDICINE
Sheet 30 of 44

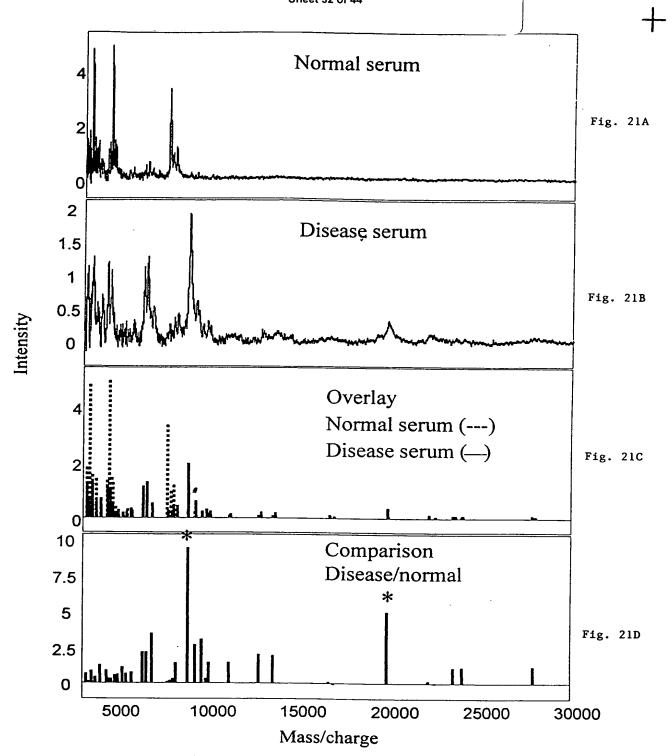


Application No.: 10/626,302
Applicant: T. William Hutchens et al.
Title: RETENTATE CHROMATOGRAPHY AND PROTEIN CHIP ARRAYS
WITH APPLICATIONS IN BIOLOGY AND MEDICINE
Sheet 31 of 44



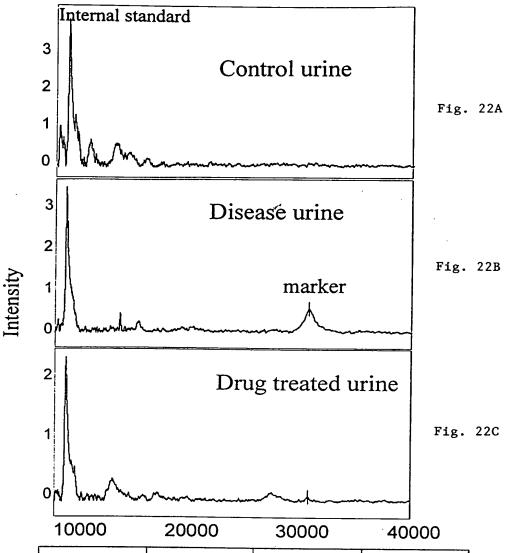


Application No.: 10/626,302
Applicant: T. William Hutchens et al.
Title: RETENTATE CHROMATOGRAPHY AND PROTEIN CHIP ARRAYS
WITH APPLICATIONS IN BIOLOGY AND MEDICINE
Sheet 32 of 44



Application No.: 10/626,302
Applicant: T. William Hutchens et al.
Title: RETENTATE CHROMATOGRAPHY AND PROTEIN CHIP ARRAYS
WITH APPLICATIONS IN BIOLOGY AND MEDICINE
Sheet 33 of 44

FIG. 22



Sample	Protein	Area	Intensity
Disease	Int std	1139.044	3.340518
	marker	695.4804	0.580081
Drug treated	Int std	1383.883	3.780178
	marker	71.05119	0.143227

Fig. 22D

Normalized marker peak area (marker/internal std):

Control

0.0

Disease

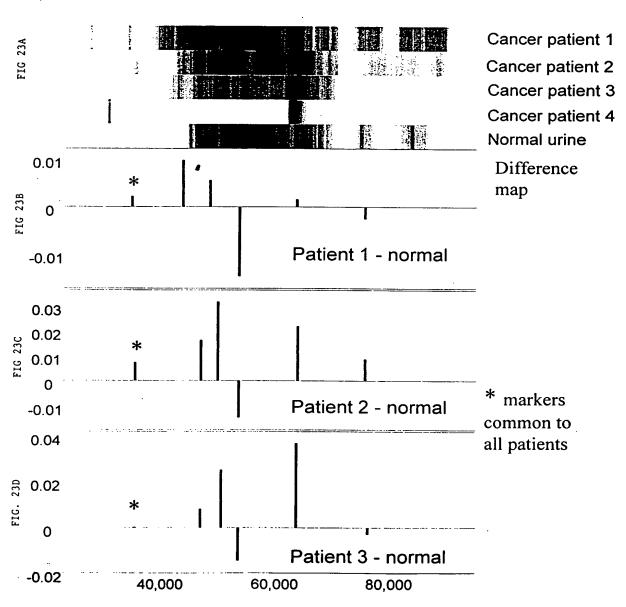
0.61

Drug treated

0.05

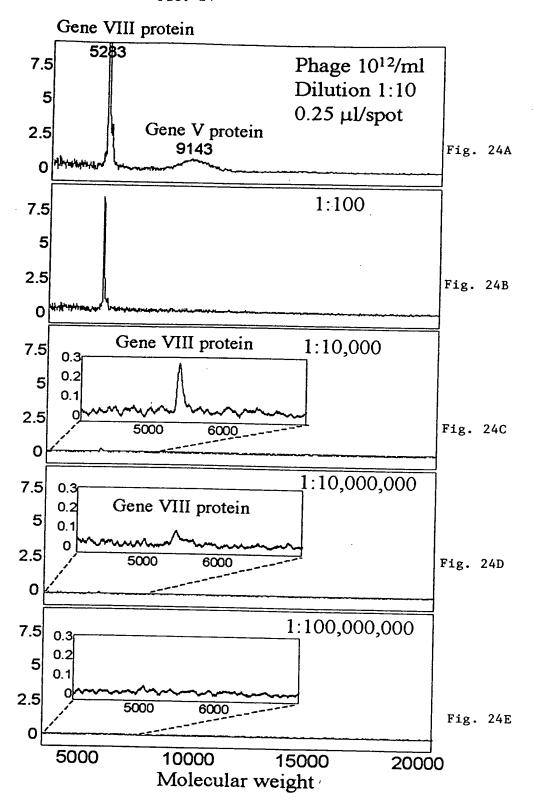
+

Retentate MapTM of Human Urine SELDI ProteinChipTM Array



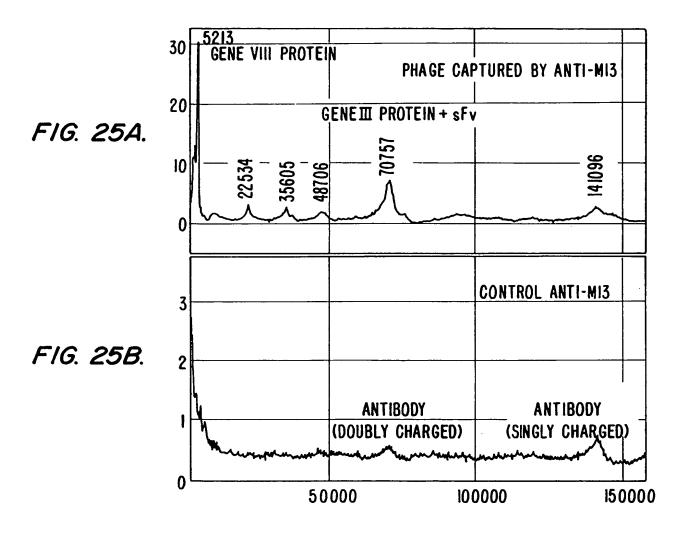
+

FIG. 24

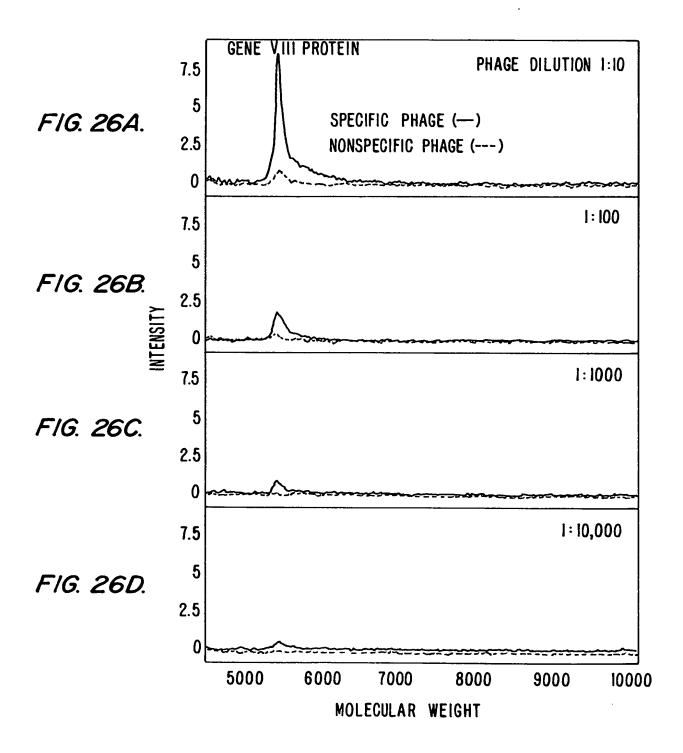


Application No.: 10/626,302
Applicant: T. William Hutchens et al.
Title: RETENTATE CHROMATOGRAPHY AND PROTEIN CHIP ARRAYS
WITH APPLICATIONS IN BIOLOGY AND MEDICINE

Sheet 36 of 44



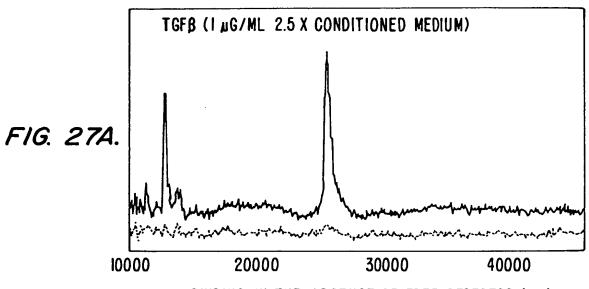




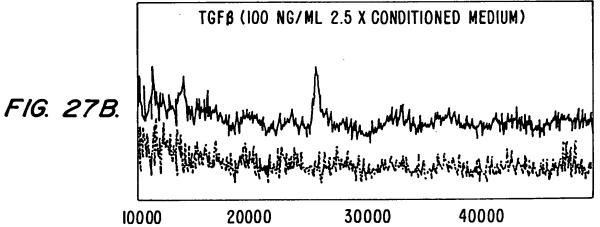
Applicant: T. William Hutchens et al.

Title: RETENTATE CHROMATOGRAPHY AND PROTEIN CHIP ARRAYS WITH APPLICATIONS IN BIOLOGY AND MEDICINE

Sheet 38 of 44



BINDING IN THE ABSENCE OF FREE RECEPTOR (-) BINDING IN THE PRESENCE OF EXCESS FREE RECEPTOR (----)



Application No.: 10/626,302
Applicant: T. William Hutchens et al.
Title: RETENTATE CHROMATOGRAPHY AND PROTEIN CHIP ARRAYS
WITH APPLICATIONS IN BIOLOGY AND MEDICINE
Sheet 39 of 44

HYDROPHOBIC SITE

4
2
0

FIG. 28A.

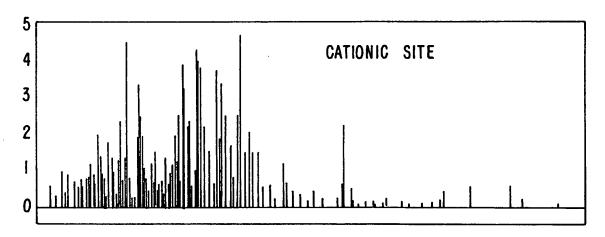


FIG. 28B.

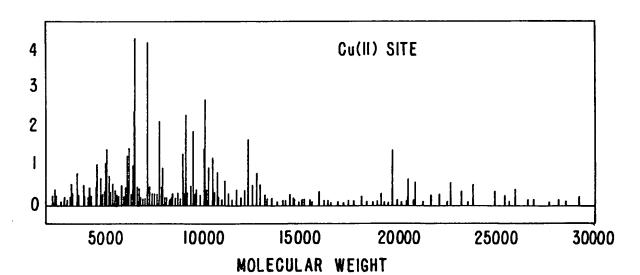
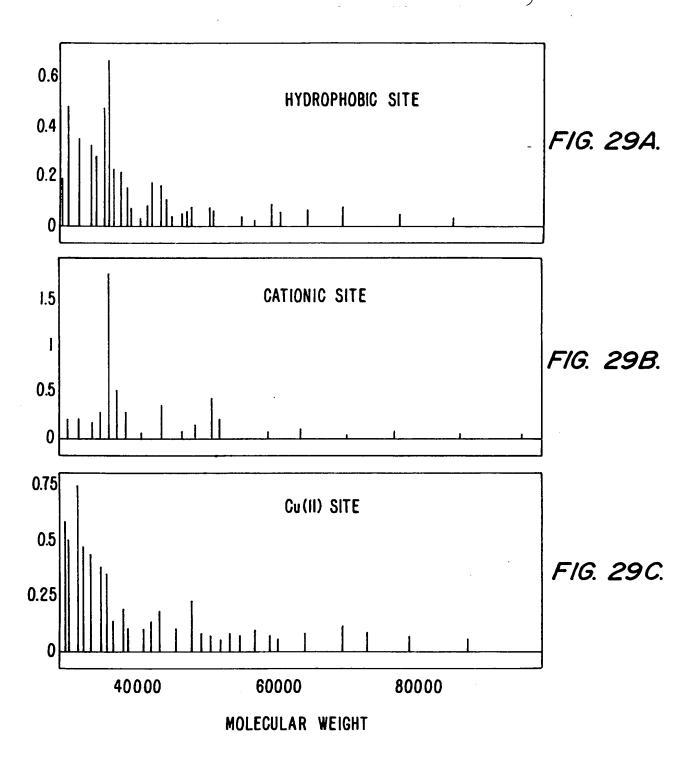


FIG. 28C.





Application No.: 10/626,302
Applicant: T. William Hutchens et al.
Title: RETENTATE CHROMATOGRAPHY AND PROTEIN CHIP ARRAYS
WITH APPLICATIONS IN BIOLOGY AND MEDICINE
Sheet 41 of 44

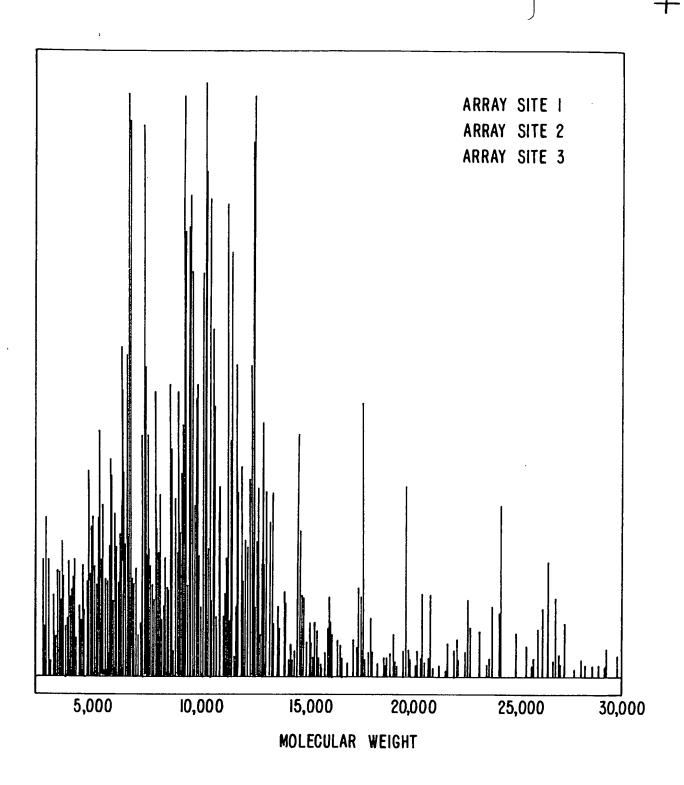


FIG. 30.

Application No.: 10/626,302
Applicant: T. William Hutchens et al.
Title: RETENTATE CHROMATOGRAPHY AND PROTEIN CHIP ARRAYS
WITH APPLICATIONS IN BIOLOGY AND MEDICINE
Sheet 42 of 44

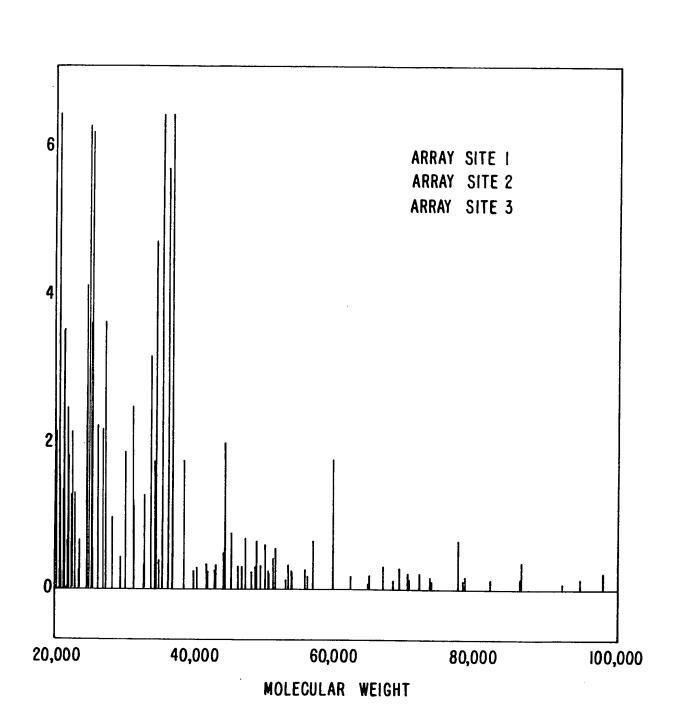


FIG. 31.

Application No.: 10/626,302
Applicant: T. William Hutchens et al.
Title: RETENTATE CHROMATOGRAPHY AND PROTEIN CHIP ARRAYS
WITH APPLICATIONS IN BIOLOGY AND MEDICINE
Sheet 43 of 44



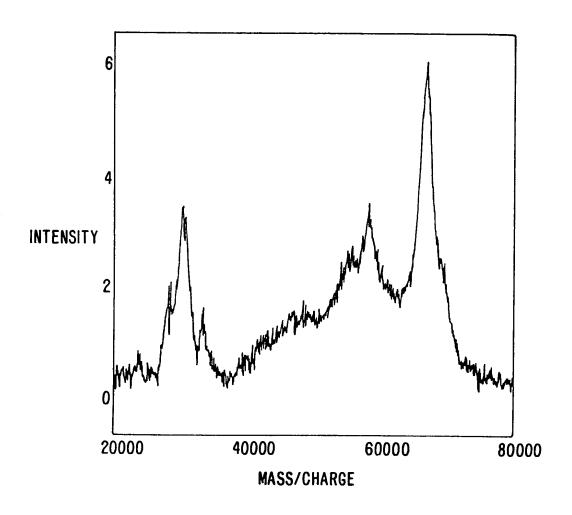


FIG. 32.



